

# Seasons Investigation

## Pedagogy Underlying the Activity

In Steps 1-6, students have a guided experience analyzing data and drawing conclusions which gives them practice using the GLOBE graphing tool and analyzing data. These steps also prepare students to compare sites with very different

seasonal patterns and identify several key factors that influence a site's seasonal patterns. In Step 7, students generate questions about these factors and develop hypotheses to test their effect. In Steps 8-10, they collect and analyze data, draw conclusions and communicate them to the class. New questions emerge from this sequence, and the inquiry cycle repeats itself.

### ***How This Activity Helps Develop the Idea that Science is a Process of Refining Understanding***

General Steps in Refining Understanding	Corresponding Activity Step
1. Ask Questions and Develop Hypotheses	Step 7
2. Plan Investigation	Step 7
3. Collect and Analyze Data	Step 8
4. Draw Conclusions If data are insufficient to support conclusion, return to 3 If data are sufficient to support a conclusion, go to 5	Step 8
5. Communicate conclusions	Step 10
6. Ask follow-up Questions and Develop New Hypotheses	Step 9 and 10